

Receiving Report

Date:

12-6-14

Batch No:

122081

Supplier:

ThyssenKrupp materials

Dart P/O:

17172

Packing Slip:

Yes

No

Invoice:

Yes

No

Receipt:

Cash

Cr

Release Note Attached:

Yes

No

N/A

Waybill Attached:

Yes

No

N/A

Shipment Complete:

Yes

No

N/A

QC6 Inspection

12/6/14

N/A

Work Order

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments
m304B	500x1500 bar	12	0		12	
m2024T	32x40	96	0		96	

Initials of receiver (if shipment OK) Level 12

SP

Production/Admin:

Date

Received/Costing

Initial

12-6-14

SP

Location

mat

Purchase Order Receipt Listing

Thursday, June 14, 2012 8:16:38 AM

All amounts are calculated in domestic currency.

All Vendors PO ID po17172 Receipt Dates from 6/14/2012 to 6/14/2012 All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID/Vendor Name VC-COP001 Thyssenkrupp Materials CA Ltd											
PO17172	1		M6061T6R0.625 f		6/15/2012	6/14/2012	48.0000	\$0.52	0.0000	0	\$25.12
CAD	No		6061-T6 Round Bar .625"	f	48.0000	DES102		\$25.12	0.0000	0	
			122081								
	2		M6061T6R0.750 f	f	6/15/2012	6/14/2012	60.0000	\$1.15	0.0000	0	\$68.99
	No		6061-T6 Round Bar .750"	f	60.0000	DES102		\$68.99	0.0000	0	
			122081								
	3		M6061T6B1.500X01. f	f	6/15/2012	6/14/2012	12.0000	\$4.40	0.0000	0	\$52.76
	No		250								
			6061-T6 Bar 1.50 x 1.25	f	12.0000	DES102		\$52.76	0.0000	0	
			122081								
	4		M6061T6B1.000X06. f	f	6/15/2012	6/14/2012	12.0000	\$14.01	0.0000	0	\$168.14
	No		000								
			6061T6 BAR 1.00 X 6.00	f	12.0000	DES102		\$168.14	0.0000	0	
			122081								
	5		M6061T6B1.000X02. f	f	6/15/2012	6/14/2012	60.0000	\$4.73	0.0000	0	\$284.09
	No		000								
			6061-T6 Bar 1.00 x 2.00	f	60.0000	DES102		\$284.09	0.0000	0	
			122081								
	6		M6061T6B00750X00 f	f	6/15/2012	6/14/2012	100.0000	\$0.31	0.0000	0	\$30.92
	No		.125								
			6061-T6 Bar .750 x .125	f	100.0000	DES102		\$30.92	0.0000	0	
			122081								
	7		M6061T6B0.500X05. f	f	6/15/2012	6/14/2012	24.0000	\$5.99	0.0000	0	\$143.79
	No		000								
			6061-T6 Bar .500 x 5.00	f	24.0000	DES102		\$143.79	0.0000	0	
			122081								

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M/ Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID/Vendor Name VC-COP001 Thyssenkrupp Materials CA Ltd											
PO17172	8		M6061T6B0.250X02. f 000		6/15/2012	6/14/2012	24.0000	\$1.24	0.0000	0	\$29.76
CAD	No		6061-T6 Bar .250 X f 2.00		24.0000	DES102		\$29.76	0.0000	0	
			122081								
	9		M6061T6A1.000W.1 f 25		6/15/2012	6/14/2012	20.0000	\$1.21	0.0000	0	\$24.16
	No		6061T6 ANGLE 1.00 f x 1.00 x .125W		20.0000	DES102		\$24.16	0.0000	0	
			122081								
Total Received Quantity: 360.0000 Total Qty to Inspect (PO U/M): 0.0000 Total Reject Quantity: 0.0000 Total Receipt Value: \$827.74 Total Balance Due Quantity: 0.0000											

B I L L O F L A D I N G

No: PEC 771978

Ship From:
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 9057389033

Ship Date 13Jun12 at 14:22 From PFW
 Probill
 Via VIM TRANSFER
 FOB CONCORD
 Frt PREPAID
 Route 0- 0 Manifest
 Vhcle Trailer
 Slp STAN IVERS (905-532-1350)
 Sold To: (20115)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7

Ship To: (1)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7
 Tel: 613-632-9577 Fax: 613-632-1053

B I L L O F L A D I N G

1) Our Order PEC-460327- 1 Your PO # 17172
 ALUMINUM ROUND BAR 6061-T6511
 .750" DIA X 144.0000"

Heat Number 21072516
 Tag No 76429

Quantity 60 FT PCS 5 Wt LBS 31

2) Our Order PEC-460327- 2 Your PO # 17172
 ALUMINUM ROUND BAR 6061-T6511
 .625" DIA X 144.0000"

Heat Number 15780
 Tag No 76430

Quantity 48 FT PCS 4 Wt LBS 18

3) Our Order PEC-460327- 3 Your PO # 17172
 ALUMINUM FLAT BAR 6061-T6511
 1.250" x 1.50" X 144.0000"

Heat Number Z00261017
 Tag No 76431

Quantity 12 FT PCS 1 Wt LBS 27

4) Our Order PEC-460327- 4 Your PO # 17172
 ALUMINUM FLAT BAR 6061-T6511
 1.00" x 6.00" X 144.0000"

Heat Number 16242
 Tag No 76432

Quantity 12 FT PCS 1 Wt LBS 84

5) Our Order PEC-460327- 5 Your PO # 17172
 ALUMINUM FLAT BAR 6061-T6511
 1.00" x 2.00" X 144.0000"

Heat Number 17077
 Tag No 76433

Quantity 60 FT PCS 5 Wt LBS 140

Page: 1Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
 RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

Cal Lavolette

SHIP FROM:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 9057389033

B I L L O F L A D I N G

No: PEC 771978
Ship Date 13Jun12 at 14:22 From PFW
Probill
Via VIM TRANSFER
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

Ship To: (1)
DART AEROSPACE

B I L L O F L A D I N G

6) Our Order PEC-460327- 6 Your PO # 17172

ALUMINUM FLAT BAR 6061-T6511

.125" x .750" X 240.0000"

Heat Number
11070731B

Tag No
76475

Quantity
100 FT

PCS
5

Wt LBS
11

MTR

7) Our Order PEC-460327- 7 Your PO # 17172

ALUMINUM FLAT BAR 6061-T6511

.50" x 5.00" X 144.0000"

Heat Number
12020251A

Tag No
76434

Quantity
24 FT

PCS
2

Wt LBS
71

MTR

8) Our Order PEC-460327- 8 Your PO # 17172

ALUMINUM FLAT BAR 6061-T6511

.250" x 2.00" X 144.0000"

Heat Number
17064

Tag No
76435

Quantity
24 FT

PCS
2

Wt LBS
14

MTR

9) Our Order PEC-460327- 9 Your PO # 17172

ALUMINUM ANGLE 6061-T6511

1.00" x 1.00" x .125" X 240.0000"

Heat Number
2BR436

Tag No
76476

Quantity
20 FT

PCS
1

Wt LBS
6

MTR

10) Our Order PEC-460327- 12 Your PO # 17172

ALUMINUM SHEET 2024 -T3

.0400 Nom X 48.0000" X 144.0000"

THIS ITEM IS B/O

TOTAL: Tags 9 PCS 26 LBS 402

Heat Number
11070731B

*** Chemical Analysis ***

Page: 2Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

Cal Lavolette

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511

750" DIA X 144.0000"

PART NO.

PO/Rel 17172

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results

BL PEC-771978-001

13Jun12
Pg 1/2

Sapa:

Sapa Industrial Estimations
53 KOTTISVILLE STREET

CRESSONA, PA
17929-0187

Sapa Extrusions Inc., a Subsidiary of Sapa AB

Invoice To Customer

THYSSENKRUPP MATERIALS NA INC
2821 LANGSTAFF ROAD
ATTN: ACCOUNT PAYABLE

CONCORD, ON - L4K 5C6

Ship To Customer

THYSSENKRUPP MATERIALS NA INC
2821 LANGSTAFF ROAD

CONCORD, ON - L4K 5C6

Certified Inspection Report

Sale Order Number 1100465852
Time No. 1
Customer PO PEC-239082-001

Cert Number SAPA566992
Page 1 of 2
Cert Creation Date 11-MAY-12
Cert Print Date 11-MAY-12

Quantity Shipped	Date Shipped	Item Description	Specification
1164 LB	11-MAY-12	Extruded Aluminum Angle 6.000 B x 3.000 H x 0.375 TK	ASTM B221 REV 12 ASME B221 REV 09 AMS-QQ-A-2008 REV
B/L	Item No.	326305	SECT 710053 2/0.000 IN 1 N FIN M-MILL W/F 3.839 F 5.06 6.7 6061/T6511
Delivery ID	Item No. Rev	4316441	Marking CONTINUOUS;
Customer Part No.		710053	

Applicable Specifications, Revisions and Exceptions

COMPOSITION NOTE: The values for 'Others Each' and 'Others Total' have met the limits as shown on this certified inspection report. Remainder is Aluminum.

Signature And Title

William T. Martin, III

William Martin III

Test/Quality Manager

11-MAY-12

We hereby certify that, unless otherwise indicated, the material covered by this report has been manufactured, inspected, and tested in accordance with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the material and the composition and had the mechanical properties shown on the face of this certification. Also, note that mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product. This certification is not to be reproduced in partial form without prior written approval of our Quality Assurance Dept.

Package Number	Lot Number	Quantity	UOM	Weight
G12-PK01580637	20949161	15	PCS	Gross 1172 Net 1164

Composition Limits	Alloy	Si		Fe		Cu		Mn		Mg		Cr		Zn	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
6061		0.40	0.80	—	0.70	0.15	0.10	—	0.15	0.80	1.20	0.04	0.35	—	0.25

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511

.750" DIA X 144.0000"

PART NO.

PO/Rel 17172

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PBC-771978-001

13Jun12
Pg 2/2

Signed by:

Sapa

Sapa Industrial Extrusions
53 PORTSVILLE STREET
CRESSONA, VA
17929-0187

Certified Inspection Report

Sales Order Number	Line No.	Customer P/O
1100465852	1	PBC-239082 001

Cert Number	Page
SAPA565892	2 of 2
Cert Creation Date	Cert Print Date
11-MAY-12	11-MAY-12

Alloy	Fe	Si	Al	Mn	Pb	Others Each	Others Total
6061	0.15	0.33	0.25	0.05	0.05	0.05	0.15

Composition Remarks

Heat / Cast	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Bi	Pb	Others Each	Others Total
4026947	0.69	0.33	0.25	0.05	0.93	0.07	0.06	0.02	—	—	—	—

Mechanical Property - Test Limits

Test Type	UTS - L	YYS - L	EL - 4D Long
Test Number	—	—	—
Lot Number	—	—	—
# of Tests	—	—	—
MIN VALUE	43.7	41.4	16.7
MAX VALUE	43.7	41.4	16.7
T6511	2899161	1	1

Cert Notes

Products manufactured with a T6511 temper also meet T6 temper requirements.

Yield strength has been determined by the 0.2% offset method

All Mill Finish Alloys produced at Sapa Extrusions comply with 0.4% Maximum Lead per RoHS, with the exception of 6262 alloy

In accordance with EN 10204 Inspection Certificate Type 3.1

Melted in the USA or other Qualified Countries as Defined by DEFANS 225.872.1

Made in USA

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511

1.250" x 1.50" X 144.0000"

PART NO.

PO/Rel 17172

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-771978-003

13Jun12

Signed by: _____ Pg 1/1

KAISER
ALUMINUM
FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CUSTOMER PO NUMBER: PEC-238894-4		CUSTOMER PART NUMBER: ALREC00007		PRODUCT DESCRIPTION: 1.250 X 1.500 SC RECT BAR	
KAISER ORDER NUMBER: 619529	LINE ITEM: 004	SHIP DATE: 05/04/2012	KAISER LOT NUMBER: Z00261017	ALLOY: 6061	TEMPER: T6511
WEIGHT SHIPPED: 952.000 LB	QUANTITY: 36.000 PCS	B/L NUMBER: 603334	DIAM/DAF/THKNS: 	WIDTH: 	LENGTH: 12.000 FT
SHIP TO: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			SOLD TO: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00261017	0001	1	48.7	44.4	16.8	RE 90	N/A	N/A
Z00261017	0001	2	51.8	48.5	18.5	RE 90	N/A	N/A
Z00261017	0001	3	52.5	49.2	16.7	RE 92	N/A	N/A
Z00261017	0001	4	53.0	49.2	17.1	RE 91	N/A	N/A
Z00261017	0001	5	50.0	46.1	18.0	RE 91	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
1C1543	.74	.25	.29	.09	.96	.09	.03	.03	.00	.00	.00	.01	.04

Applicable Requirements:

ASTM-B221-08-STENCILED ASME-SB221 1998 SECT II AMS-QQ-A-200/8 UNS#96061 (T6511 also conforms to T6-rot applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Alex Yeh, Quality & Technology Manager

Plant Serial: 00042208

Kaiser Order Number: 619529

Line Item: 004

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM PLAT BAR 6061-T6511
1.00" x 2.00" x 144.0000"
PART NO.

PO/Rel 17172

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Signed by: _____

Certificate of Mill Test Results
BL PEC-771978-005
13Jun12
Pg 1/1



TEL: (416) 745-4444 FAX: (416) 745-0925 1-800-668-7210
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4

<http://www.extrudex.com>

MILL TEST REPORT

BILL TO: THYSSENKRUPP MATERIALS, NA
SHIP TO: THYSSENKRUPP MATERIALS, NA
SO DESCRIPTION: 1"x2" FB
Cert Code: 1 0.83
CUSTOMER PO: PEC-239192
CUSTOMER PART NUMBER: 1-1000-2000
DIE NUMBER: S 7238
ALL OY: 6061 T6511
TEMPER: FORBES DODWELL
DATE OF SHIPMENT: 6/4/2012
SALESMAN: MADE IN CANADA
EXTRUDEX ORDER NO. 145990 — 5
MANIFEST NO. 267477
CERTIFICATION: MILL TEST ASTM B221

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness	Conductivity
A 11	6061	May/31/12	43.7	39.6	14.70	90.2, 89.6, 90.5	

Chemical Composition

Cast Number	SI	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
A 11 17077 6061	0.56	0.22	0.19	0.06	0.82	0.05	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

David Natale
Quality Control Manager

inf 12/06/14

1 - CUSTOMER COPY

MILL TEST REPORT

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511

.50" x 5.00" X 144.0000"

PART NO.

PO/Rel 17172

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-771978-007

13Jun12

Signed by: _____ Pg 1/1

CAN ART

ALUMINUM EXTRUSION INC.

Material Test Report

Ship To: ThyssenKrupp Materials NA
2821 Langstaff Road
Concord, ON L4K 5C6

Manifest: **240823**

Ticket:
5239311

Our Order: 382784 - 2 Cust P.O.: 236482
Die: ES05559 Part: 05559-000-144
Alloy Temper: 6061 T6511 Description: .500 x 5.000
Print Date: 2/13/12

Chemical Composition Range

	<u>Si</u>	<u>Fe</u>	<u>Cu</u>	<u>Mn</u>	<u>Mg</u>	<u>Cr</u>	<u>Zn</u>	<u>Ti</u>	<u>OtherEach</u>	<u>OtherTotal</u>
Min	0.40		0.15		0.8	0.04				
Max	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05	0.15

Mechanical Properties

Strength ksi

<u>Sample ID</u>	<u>Cast #</u>	<u>Lot #</u>	<u>Test Date</u>	<u>Ultimate Tensile</u>	<u>Yield 2% offset</u>	<u>Elongation 2" gage length</u>
129124	12020251A	A11	2/13/12	44.15	39.23	10.1

Applicable Specifications ASTMB221-08 QQA200/8

Country of Origin: 85 Parkshore Drive, Brampton, Ontario CANADA L6T 5M1

mf
12/06/14

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.

Ray Hussain - Tensile Testing

Authorized: _____

Evan Eng
Evan Eng, Quality Assurance Mgr.

THYSSENKRUPP MATERIALS NA

PO/Rel 17172

Certificate of Mill Test Results

ALUMINUM ANGLE 6061-T6511
1.00" x 1.00" x .125" X 240.0000"

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

BL PEC-771978-009

13Jun12
Pg 1/1



TEL: (416) 745-4444 FAX: (416) 745-0925 1-800-668-7210
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4

<http://www.extrudex.com>

MILL TEST REPORT

BILL TO: THYSSENKRUPP MATERIALS NA
SHIP TO: THYSSENKRUPP MATERIALS NA
SO DESCRIPTION: 1" X 1" X .125" angle
CUT CODE: 1
CUSTOMER PO: PEC-239304
CUSTOMER PART NUMBER: 9-125-1000
DIE NUMBER: 0.11 S 2228
ALLOY: 6061
TEMPER: T6511
SALESMAN: FORBES DODWELL
DATE OF SHIPMENT: 6/7/2012
EXTRUDEX ORDER NO.: 146278
MANIFEST NO.: 2
267739
CERTIFICATION: MADE IN CANADA
MILL TEST ASTM B221

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness	Conductivity
A.11	6061	Jun/05/12	41.1	37.2	12.40	86.8, 87.2, 87.5	

Chemical Composition

Cast Number	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other	
A.11 2BR436 6061	0.61	0.18	0.20	0.04	0.89	0.07	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

David Natale
Quality Control Manager

12/06/14

1 - CUSTOMER COPY

MILL TEST REPORT

THYSSENKRUPP MATERIALS NA

PO/Rel 17172

Certificate of Mill Test Results

PART AEROSPACE
ALUMINUM ROUND BAR 6061-T6511
.750" DIA X 144.0000"
PART NO.

BL PEC-771978-001

13Jun12
Pg 1/3

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

12/06/14

sapa:

Sapa Industrial Extrusions
53 POTTSVILLE STREET
CRESSONA, PA
17929-0187

Sapa Extrusions Inc., a Subsidiary of Sapa AB

Invoice To Customer

THYSSENKRUPP MATERIALS NA INC
2821 LANGSTAFF ROAD
ATTN: ACCOUNT PAYABLE

CONCORD, ON - L4K 5C6

Ship To Customer

THYSSENKRUPP MATERIALS NA INC
2821 LANGSTAFF ROAD

CONCORD, ON - L4K 5C6

Certified Inspection Report

Sales Order Number 1100465852
Line No. 2
Customer P/O PTC-239082-002

Cert Number SAPA566996
Page 1 of 3
Cert Creation Date 11-MAY-12
Cert Print Date 11-MAY 12

Quantity Shipped	Item Shipped	Date Shipped	Item Description	Specification
5180	1LB	11-MAY 12	ACC-U-LINE Extended ACC-L-ROD 0.750 DIA +/- .003 SECT 55324 144.000 IN LN FIN M-MILL W/F .520 P-5 CS .75 6061/T6511H Matching CONTINUOUS.	ASTM B221 REV 12 AA6-Q-A-2008 RHY ASME SB221 REV 09 UNSA96061 REV SAE1454 REV Mens 6061-T6511H, 6061-T6511 REV
B/L	Item No.	Item No. Rev		
326305	G03967437			
Delivery Id				
4316441				
Customer Part No.				
75ER+				

Applicable Specifications, Revisions and Exceptions

COMPOSITION NOTE: The values for 'Others Each' and 'Others Total' have met the limits as shown on this certified inspection report. Remainder is Aluminum.

Legal Statement

We hereby certify that, unless otherwise indicated, the material covered by this report has been manufactured, inspected, and tested in accordance with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the material met the composition and had the mechanical properties shown on the face of this certification. Also, note that mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product. This certification is not to be reproduced in partial form without prior written approval of our Quality Assurance Dept.

Signature And Title

William T. Martin, III

William Martin III

Tech/Quality Manager

11-MAY-12

Quantities per Lot/Packages

Package Number	Lot Number	Quantity	UOM	Weight
			Gross	Net
G12-PKG1672871	21072516	83	PCS	524 518
G12-PKG1672877	21072516	83	PCS	524 518
G12-PKG1672893	21072516	83	PCS	524 518
G12-PKG1672897	21072516	83	PCS	524 518
G12-PKG1672897	21072516	83	PCS	524 518
G12-PKG1672904	21072516	83	PCS	524 518
G12-PKG1672930	21072516	83	PCS	524 518
G12-PKG1672937	21072516	83	PCS	524 517
G12-PKG1672937	21072516	83	PCS	524 517

PO/R₂117172

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

RI PEC-771078-001

13Jun12
Po 2/3

**Sapa Industrial Extrusions
53 POTTSVILLE STREET**

Sales Order Number

CRESSONA, PA
17929-0187

1100465852

Time No.

2

Customer P/O

Cert Number	SATA566996
Tier Creation Date	11-MAY-12

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Page 2 of 3

Cert Print Date

11-MAY 17

12/06/14

	Si		Fe		Ca		Mn		Mg		Cr		Zn	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Alloy														
6061	0.40	0.80	—	0.70	0.15	0.40	—	0.15	0.80	1.20	0.04	0.35	—	0.25
	T1		B1		B1		Other Back		Others Total					
Alloy	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
6061	—	0.15	—	0.05	—	0.05	—	0.05	—	0.15	—	—	—	—

[illegible]

	Test Type	UTS - L	TYS - L	EL-40-Long
	DMS	KSI	KSI	PCT
# of Test		--	--	--
Test Temp	Lot Number	MOIN Value	MAX Value	MION Value
TESTIR	Z1072516	43.8	48.4	40.0
	IZ			42.3
				15.6
				17.2

Products manufactured with a T6311 temper also meet T6 temper requirements.

field strength) has been determined by the 0.2% offset method

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511

.750" DIA X 144.000"

PART NO.

PO/Rel 17172

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results
BL PEC-771978-001
13Jun12
Pg 3/3

sapa:

Sapa Industrial Extrusions
53 POTTSVILLE STREET
CRESSONA, PA
17929-0187

Certified Inspection Report

Sales Order Number	Line No.	Customer P/O	Cert Number	Page
1100465852	2	PEC-239082-002	SAPAS66996 Cert Creation Date 11-MAY-12	3 of 3 Cert Print Date 11-MAY-12

All Mill Finish Alloy produced at Sapa Extrusions comply with 0.4% Maximum Lead per RoHS, with the exception of 6262 alloy
In accordance with EN 18204 Inspection Certificate Type 3.1
Melted in the USA or Other Qualified Countries as Defined by DEAS 225.872.1
Made in USA

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511
1.00" x 6.00" x 144.0000"
PART NO.

Certificate of Mill Test Results

BL PEC-771978-004

13Jun12
Pg 1/1

PO/Rel 17172

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:



TEL: (416) 745-4444 FAX: (416) 745-0925 1-800-668-7210
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4

<http://www.extrudex.com>

MILL TEST REPORT

BILL TO: THYSSENKRUPP MATERIALS, NA
SHIP TO: THYSSENKRUPP MATERIALS, NA
SO DESCRIPTION: 1"x6" FB
CERIFICATION: MILL TEST ASTM B221

Cert Code: 1
CUSTOMER PO: PEC-237313
CUSTOMER PART NUMBER: 1-1000-6000

DIE NUMBER: 0.90
S: 4658
ALLOY: 6061
TEMPER: T6511
PART DESCRIPTION: FORBES DODWELL

DATE OF SHIPMENT: 3/14/2012
SALESMAN: FORBES DODWELL

EXTRUDEX ORDER NO. 143182 — 8
MANIFEST NO. 262630
MADE IN CANADA

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness	Conductivity
A.11	6061	Mar/12/12	44.0	37.8	15.00	88.2, 88.4, 88.7	

Chemical Composition

Cast Number	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Al	Other
A.11 16242 6061	0.54	0.25	0.18	0.06	0.81	0.04	0.00	0.01	0.02	0.00	0.00

David Natale
Quality Control Manager

12/06/14

1 - CUSTOMER COPY

MILL TEST REPORT

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511

.125" x .750" X 240.0000"

PART NO.

PO/Rel 17172

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-771978-006

13Jun12

Signed by: _____ Pg 1/1

CAN ART

ALUMINUM EXTRUSION INC.

Material Test Report

Customer Ship To:

ThyssenKrupp Materials NA
2821 Langstaff Road

Concord, ON L4K 5C6

Our Order: 378367 - 1

Your PO # 231560-\

Part # 05485-000-240

Die: ES05485

Description: .125 x .750

Alloy Temper 6061 T6511

Print Date: 8/3/2011

Chemical Composition

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	others each	others total	Al
0.40-0.8	0.7 max	0.15-.40	0.15 max	0.8-1.2	0.04-0.35	0.25 max	0.15	0.05	0.15	remain

Mechanical Properties

Strength ksi

Test ID	Lot	Test Date	CastNum	Ultimate	Yield (2% Offset)	Elongation (2" gage length)	Skid #
126281	A11	8/2/11	11070731B	41.57	40.19	10.0	5205058

Applicable Specifications: ASTM B221-08 QQA200/8

Country of Origin: 85 Parkshore Drive, Brampton, Ontario CANADA L6T 5M1

ml
12/06/14

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.

Ray Hussain - Tensile Testing

Authorized

Evan Eng
Evan Eng, Quality Assurance Mgr.

THYSSENKRUPP MATERIALS NA

Certificate of Mill Test Results

PART AEROSPACE

PO/Rel 17172

ALUMINUM PLAT BAR 6061-T6511

BL PEC-771978-008

2.50" x 2.00" x 144.0000"

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

13Jun12
Pg 1/1



TEL: (416)745-4444 FAX: (416)745-0925 1-800-668-7210
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4

<http://www.extrudex.com>

MILL TEST REPORT

BILL TO

THYSSENKRUPP MATERIALS, NA

Cut Code:

1

CUSTOMER PO

0.93

DIE NUMBER

S

DATE OF SHIPMENT

5/31/2012

THYSSENKRUPP MATERIALS, NA

PEC-239239

SALES MAN

FORBES DODWELL

EXTRUDEX ORDER NO.

146069

MANIFEST NO.

267252

250"x2" FB

CUSTOMER PART NUMBER

1-250-2000

CERTIFICATION

MADE IN CANADA

MILL TEST ASTM B221

Mechanical Properties

Lot

Alloy

Test Date

Ultimate Tensile Strength (KSI)

Yield Strength (KSI)

Percent Elongation

Hardness

Conductivity

A.11

6061

May/29/12

42.4

39.4

15.70

88.9, 88.6, 89.4

Chemical Composition

Cast Number

A.11

17064 6061

Si

Fe

Cu

Mn

Mg

Cr

Ni

Zn

Ti

Al

V

B

Zr

Bi

Pb

Sn

Sr

Co

Al

Other

0.01

David Natale
Quality Control Manager

12506/14

1 - CUSTOMER COPY

MILL TEST REPORT

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511

.625" DIA X 144.0000"

PART NO.

PO/Rel 17172

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-771978-002

13Jun12

Signed by: _____

Pg 1/1

CAN ART

ALUMINUM EXTRUSION INC.

Material Test Report

Manifest: **240696**

Ship To: ThyssenKrupp Materials NA

2821 Langstaff Road

Concord, ON L4K 5C6

Ticket:

5238326

Our Order: **382919 - 9**

Cust P.O.: 236649

Die: ES05631

Part: 05631-000-144

Alloy Temper: 6061 T6511

Description: .625

Print Date: 2/9/12

Chemical Composition Range

	<u>Si</u>	<u>Fe</u>	<u>Cu</u>	<u>Mn</u>	<u>Mg</u>	<u>Cr</u>	<u>Zn</u>	<u>Ti</u>	<u>OtherEach</u>	<u>OtherTotal</u>
6061										
Min	0.40		0.15		0.8	0.04				
Max	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05	0.15

Mechanical Properties

Strength ksi

<u>Sample ID</u>	<u>Cast #</u>	<u>Lot #</u>	<u>Test Date</u>	<u>Ultimate Tensile</u>	<u>Yield 2% offset</u>	<u>Elongation 2" gage length</u>
129084	15780	A11	2/8/12	42.49	37.19	11.9

Applicable Specifications ASTMB221-08 QQA200/8

Country of Origin: 85 Parkshore Drive, Brampton, Ontario CANADA L6T 5M1

enf
12/06/14

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.

Ray Hussain - Tensile Testing

Authorized: _____

Evan Eng
Evan Eng, Quality Assurance Mgr.



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO17172

Purchase Order Date 6/11/12

PO Print Date 6/12/12

Page Number 1 of 4

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Contact Name

Vendor Phone

905 669 9444

Vendor Fax

905 738 9033

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

RECEIVED
JUN 12 2012
DART AEROSPACE LTD

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

REVISÉ

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	M6061T6R0.625 012.	6061-T6 Round Bar .625"	6/15/12 Yes	48.00 f	Yours ppd	\$0.9200	\$44.16
Special Inst: MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/ 4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221							
2	M6061T6R0.750 013.	6061-T6 Round Bar .750"	6/15/12 Yes	60.00 f	Yours ppd	\$1.1900	\$71.40
Special Inst: MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/ 4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221							

80126-14

No substitution or deviation without consent.
Certificate of Conformity or Material Certification required - YES NO

Change Nbr: 2

Change Date: 6/12/12



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO17172

Purchase Order Date 6/11/12

PO Print Date 6/12/12

Page Number 2 of 4

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Contact Name

Vendor Phone

905 669 9444

Vendor Fax

905 738 9033

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

3	M6061T6B1.500X01.250004 . 6061-T6 Bar 1.50 x 1.25	6/15/12 Yes	12.00 f	Yours ppd	\$4.5500	\$54.60
---	---	----------------	------------	-----------	----------	---------

Special Inst:

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8
OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR
AMS 4160 OR ASTM B211 OR
ASTM B221

4	M6061T6B1.000X06.000004 . 6061T6 BAR 1.00 X 6.00	6/15/12 Yes	12.00 f	Yours ppd	\$14.5000	\$174.00
---	--	----------------	------------	-----------	-----------	----------

Special Inst:

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8
OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR
AMS 4160 OR ASTM B211 OR
ASTM B221

5	M6061T6B1.000X02.000 004 6061-T6 Bar 1.00 x 2.00	6/15/12 Yes	60.00 f	Yours ppd	\$4.9000	\$294.00
---	--	----------------	------------	-----------	----------	----------

Special Inst:

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8
OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR
AMS 4160 OR ASTM B211 OR
ASTM B221

No substitution or deviation without consent.

Certificate of Conformity or Material Certification required **YES** NO

Change Nbr:

2

Change Date: 6/12/12



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO17172

Purchase Order Date 6/11/12

PO Print Date 6/12/12

Page Number 3 of 4

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Contact Name

Vendor Phone

905 669 9444

Vendor Fax

905 738 9033

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

6	M6061T6B00750X00.125	6061-T6 Bar .750 x .125	6/15/12	100.00	Yours ppd	\$0.3200	\$32.00
			Yes	f			

Special Inst: MATERIAL: 6061-
T6/T651/T6510/T6511/T62 ALUMINUM
BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8
OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR
AMS 4160 OR ASTM B211 OR
ASTM B221

7	M6061T6B0.500X05.000	6061-T6 Bar .500 x 5.00	6/15/12	24.00	Yours ppd	\$6.2000	\$148.80
			Yes	f			

Special Inst: MATERIAL: 6061-
T6/T651/T6510/T6511/T62 ALUMINUM
BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8
OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR
AMS 4160 OR ASTM B211 OR
ASTM B221

8	M6061T6B0.250X02.000	6061-T6 Bar .250 X 2.00	6/15/12	24.00	Yours ppd	\$1.2833	\$30.80
			Yes	f			

Special Inst: MATERIAL: 6061-
T6/T651/T6510/T6511/T62 ALUMINUM
BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8
OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR
AMS 4160 OR ASTM B211 OR
ASTM B221

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required **YES** NO

Change Nbr: 2

Change Date: 6/12/12



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO17172**

Purchase Order Date 6/11/12

PO Print Date 6/12/12

Page Number 4 of 4

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Contact Name

Vendor Phone

905 669 9444

Vendor Fax

905 738 9033

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

9 M6061T6A1.000W.125 6061T6 ANGLE 1.00 x 1.00 x .125W 6/15/12 20.00 Yours ppd \$1.2500 \$25.00

Yes

f

14/2/14

Special Inst: MATERIAL: 6061-T6/T6510/T6511
ALUMINUM ANGLE
AS PER AMS-QQ-A-200/8

10 M304B1.500X1.500 304 bar 1.50 X1.50 6/15/12 12.00 Yours ppd \$24.9167 \$299.00

Yes

f

Special Inst: MATERIAL: AISI 304/316 SS BAR OR
AISI 304/316 SS PLATE
AS PER ASTM A276 OR ASTM A240
NOTE: AISI 303 NOT ACCEPTABLE

11 M2024T3S.040 2024-T3 .040 sheet 6/15/12 96.00 Yours ppd \$3.6458 \$350.00

Yes

sf

Special Inst: MATERIAL: 2024-T3 ALUMINUM SHEET
QQ-A-250/4 OR AMS-QQ-A-250/4 OR
AMS 4037
OR ASTM B209

PO Total:

\$1,523.76

Change Nbr: 2

Change Date: 6/12/12

No substitution or deviation without consent.

Certificate of Conformity or Material Certification required YES NO